

Atty. Docket No.: 6647-13
Applicant: Stephen R. Carter, Delos C. Scholler nd Ronald P. Millett

INFORMATION DISCLOSURE CITATION FORM PTO-1449 (Modified)

U.S. PATENT DOCUMENTS

Exam <u>Init</u>	Ref	Document Number	Issue <u>Date</u>	Name	Class	Sub- Class
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Plika			· .	nalist Program, 19		pages 1-122.
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Atty. Docke	: No.: 6647-13	Serial No.	
Applicant:	Stephen R. Carter, Delos C. Jense	n and Ronald P. Millett	
Filing Date:	July 13, 2000	Group:	

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Exam <u>Init</u>	Ref	Document Number	Issue <u>Date</u>	<u>Name</u>	<u>Class</u>	Sub- <u>Class</u>
	_)	5,317,507	<u>5/1994</u>	Gallant	<u>707</u>	<u>532</u>
	/	5,325,298	<u>6/1994</u>	Gallant	<u>704</u>	9_
-	·	5,694,523	<u>12/1997</u>	Wical	<u>706</u>	<u>45</u>
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5		<u>5,970,490</u>	10/1999	Morgenstern	<u>707</u>	<u>10</u>
		<u>5,867,799</u>	<u>2/02/99</u>	Lang, et al.	<u>707</u>	1_
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FOREIGN PATENT DOCUMENTS

Document	Publication		
Number	<u>Date</u>	Country	<u>Name</u>

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OTHER DOCUMENTS

Exam
Init Ref (Including Author, Title, Date, Pertinent Pages, Etc.)

Applications of Functional Analysis and Operator Theory, V. Hutson, J.S. Pym, 1980, table of contents, preface and index

Latent Semantic Indexing is an Optimal Special Case of Multidimensional Scaling, Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew, Pages 161-167, 1992; ACM 0-89791-524-0

Improving Relevance Feedback in the Vector Space Model, Carol Lundquist, David A. Grossman, Ophir Frieder, 1997, Pages 16-23; ACM 0-897 1-970-X

A Multilevel Approach to Intelligent Information Filtering: Model, System, and Evaluation, J. Mostafa, S. Mukhopadhyay, W. Lam, M. Palakal, ACM Transactions On Information Systems, Vol. 15, No. 4, October 1997, Pages 368-399

Capturing the State of Distributed Systems with XML, Rohit Khare and Adam Rifkin, 10/26/97, Pages 1-12

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<u>Init</u>	Ref	(Including Author, Title, Date, Pertinent Pages, Etc.)
		Semantic Information Retrieval, Annelise Mark Pejtersen, Pages 90-92, Communications of the ACM, April 1998/Vol. 41, No. 5
~)	Unifying Heterogeneous Information Models, Narinder Singh, Pages 37-44, Communications of the ACM, May 1998/Vol. 41, No. 5
		Platform for Internet Content Selection (PICS), 1/3/98, http://www.w3.org/pics/
$\frac{\checkmark}{}$		Intelligent Collaboration & Visualization, Pages 1-16
\subseteq		Noam Chomsky, "Language and Thought," 1993, pages 18-19, 22-27, 44-45, 60-61.
)		Jonathan Culler, "Ferdinand de Saussure - Revised Edition," 1986, pages 38-57.
		Umberto Eco, Marco Santamorogio and Patrizia Violi (Editors), "Meaning and Mental Representations," 1988, page 221.
<u> </u>	<i>حـ</i> ــــ	Donald W. Kahn, "Topology – An Introduction to the Point-Set and Algebraic Areas," 1975, pages 10-15.
		Paul R. Halmos, "Naïve Set Theory," 1960, pages 56-57, 66-69.
\bigcirc		John G. Hocking and Gail S. Young, "Topology," 1961, pages 6-7, 56-59, 68-71.
$ \bigcirc $		Umberto Eco, "Semiotics and the Philosophy of Danguage," 1984, pages 46-87.
\mathcal{L}	<u>~</u> —	Noam Chomsky, "The Minimalist Program," 1995, pages 13-65.
D		R. E. Edwards, "Functional Analysis – Theory and Applications," 1965, pages 10-13, 32-33, 50-53, 62-65, 88-103, 174-203, 224-233.
X		Cognitive Science Laboratory at Princeton University, "WordNet - A Lexical Database for English," printed February 10, 2000, selected pages from website.
4	<u> </u>	George W. Smith, "Computers and Human Language," 1991, pages 204-257.
+		Vivian Cook and Mark Newson, "Chomsky's Universal Grammar – An Introduction," 1988, pages 40-74, 131-272.
/		Noam Chomsky, "The Minimalist Program," 1995, pages 13-127.
7		David Pesetsky, "Zero Syntax Experiencers and Cascades," 1995, pages 1-122.
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/	<u>5,317,507</u>	5/1994	<u>Gallant</u>	<u>707</u>	<u>532</u>
	5,325,298	6/1994	<u>Gallant</u>	<u>704</u>	9_
	5,694,523	12/1997	Wical	<u>706</u>	<u>45</u>
	5,940,821	8/1999	<u>Wical</u>	<u>707</u>	<u>3</u>
<u> </u>	3,970,490	10/1999	Morgenstern	<u>707</u>	<u>10</u>
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		OTHER DO	CUMENTS		
Exam Init Ref	(Including Aut	hor, Title, Date, I	Pertinent Rages, Etc.		
-		Functional Anal ts, preface and in	ysis and Operator To	heory, V. H	utson, J.S. Pym, 19
\overline{A} —		ll, Garrison W. C	Optimal Special Cas ottrell, Richard K. B		
(<u> </u>			in the Vector Space der, 1997, Pages 16-2		

A Multilevel Approach to Intelligent Information Filtering: Model, System, and Evaluation, J. Mostafa, S. Mukhopadhyay, W. Lam, M. Palakal, ACM Transactions On Information Systems, Vol. 15, No. 4, October 1997, Pages 368-399

Capturing the State of Distributed Systems with XML, Rohit Khare and

Adam Rifkin, 10/26/97, Pages 1-12

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			•		Language," 1991, pag	
2/		Vivian Cook a 1988, pages 40	nd Mark New)-74, 131-272	rson, "Chomsky"	's Universal Gramma	r - An Introduction,"
	·	Noam Choms	cy, "The Mini	malist Program,	" 1995, pages 13-127	· .
		David Pesetsk	y, "Zero Synt	ax Experiencers	and Cascades," 1995	, pages 1-122.
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ADDITHE UNITED STATES PATENT AND TRADEMARK OFFICE

Stephen R. CARTER; Delos C. JENSEN; Ronald P. MILLETT Inventor(s):

Serial No.: 09/615,726 Examiner: Lamont M. SPOONER

Filed:

7/13/2000

Group Art Unit: 2654

Title: A METHOD AND MECHANISM FOR THE CREATION, MAINTENANCE,

AND COMPARISON OF SEMANTIC ABSTRACTS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:			
	This Information Disclosure Sta		
	under 37 CFR 1.97 (b);		
	(Within three months before mailing date of first of		ation; or date of entry of International application; or s; whichever occurs last)
	under 37 CFR 1.97 (c)	together with either a:	
		er 37 CFR 1.97 (e), or	
		er 37 CFR 1.17 (p); or	NEW CATE OF TOTAL ACTION
	(After mailing of first C	office Action, but prior to	Notice of Allowance or Final Office Action)
	under 37 CFR 1.97 (d)		
		er 37 CFR 1.97 (e), and	
		et forth in 37 CFR 1.17 (
	(Filed after final action or notic	e of allowance, whichever	er occurs first, before payment of the issue fee)
	Applicant(s) submit he	rewith Form PTO 1449	Information Disclosure Citation together with copies of
			are aware, which applicant(s) believe(s) may be material a duty to disclose in accordance with 37 CFR 1.56.
	It is requested that the informati	on disclosed herein be m	ade of record in this application.
	Any deficiency or overpayment	t should be charged or co	redited to deposit account number 13-1703.
		Respectfully submitted	,
		MARGER JOHNSON	& McCOLLOM, P.C.
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PATENT APPLICATION

Inventor(s): Stephen R. CARTER; Delos C. JENSEN; Ronald P. MILLETT

Serial No.: 09/615,726 Examiner: Lamont M. SPOONER

Filed: 7/13/2000 Group Art Unit: 2654

Title: A METHOD AND MECHANISM FOR THE CREATION, MAINTENANCE, AND COMPARISON

OF SEMANTIC ABSTRACTS

INFORMATION DISCLOSURE STATEMENT PTO-1449

U.S. PATENT DOCUMENTS

Exam	Ref	Document	Issue Date	Name	Class	Sub
<u>Init</u>		Number				Class
13		5,276,677	1/04/94	Ramamurthy et al.	370	60
1		5,317,507	5/31/94	Gallant	364	419.13
		5,325,298	6/28/94	Gallant	364	419.19
		5,539,841	7/23/96	Huttenlocher et al.	382	218
		5,551,049	8/27/96	Kaplan et al.	707	532
		5,619,709	4/08/97	Caid et al.	395	794
		5,675,819	10/07/97	Schuetze	704	10
		5,694,523	12/02/97	Wical	395	12
		5,696,962	12/09/97	Kupiec	395	604
		5,708,825	1/13/98	Sotomayor	395	762
		5,721,897	2/24/98	Rubinstein	707	2
		5,778,362	7/07/98	Deerwester	707	5
		5,778,378	7/07/98	Rubin	707	103
		5,778,397	7/07/98	Kupiec et al.	707	500
		5,794,178	8/11/98	Caid et al.	704	9
		5,799,276	8/25/98	Komissarchik et al.	704	251
		5,822,731	10/13/98	Schultz	704	256
		5,867,799	2/02/99	Lang et al.	707	1
		5,873,056	2/16/99	Liddy et al.	704	9
		5,934,910	8/10/99	Ho et al.	434	362
		5,940,821	8/17/99	Wical	707	3
		5,963,965	10/05/99	Vogel	707	501.1
		5,966,686	10/12/99	Heidorn et al.	704	9
		5,970,490	10/19/99	Morgenstern	707	10
		5,974,412	10/26/99	Hazlehurst et al.	707	3
		5,991,713	11/23/99	Unger et al.	704	9
		6,009,418	12/28/99	Cooper	706	15
		6,078,953	6/20/00	Vaid et al.	709	223
		6,108,619	8/22/00	Carter et al.	704	9
		6,173,261	1/09/01	Arai et al.	704	257
		6,205,456	3/20/01	Nakao	707	531
		6,289,353	9/11/01	Hazelhurst et al.	707	102
		6,311,194	10/30/01	Sheth et al	707	505
		6,317,708	11/13/01	Witbrock et al.	704	9
Y		6,317,709	11/13/01	Witbrock et al.	704	225
15		6,356,864	3/12/02	Foltz et al.	704	1

Serial No.: 09/615,726 2 Docket No. 6647-013

15	6,459,809	10/01/02	Jensen et al.	382	203
	6,470,307	10/22/02	Turney	704	9
	6,523,026	2/18/03	Gillis	707	3
	6,513,031	1/28/03	Fries et al.	707	3
1	6,615,208	9/02/03	Behrens et al.	707	5
45	6,675,159	1/06/04	Lin et al.	707	3

U.S. PATENT APPLICATIONS FOREIGN PATENT DOCUMENTS

Exam <u>Init</u>	Ref	Document Number	Publication <u>Date</u>	Country	<u>Name</u>

OTHER DOCUMENTS

Exam	Ref	Author, Title, Date, Pertinent Pages, Etc.)		
Init	1201	Addition, Time, Date, 1 criment 1 ages, Etc.)		
1111		Bartell, et al., "Latent Semantic Indexing is an Optimal Special Case of		
		Multidimensional Scaling," Dept. of Computer Science & Engineering, University		
		of California, San Qiego, 1992, 7 pages.		
		Chomsey, "Language and Thought," 1993, pgs. 18-19, 22-27, 44-45, 60-61.		
7		Chomsky, "The Minimalist Program," 1995, pgs. 13-65.		
		Cook et al. "Chomsky's Universal Grammar – An Introduction," 1988, pgs. 40-		
-		74, 131-272		
		Culler, "Ferdinand de Saussure - Revised Edition," 1986 pgs. 38-57		
(-(-)		Eco et al., "Meaning and Mental Representations," 1988, pg. 221.		
		Eco, "Semiotics and the Philosophy of Language," 1984, pg. 46-86.		
		Edwards, "Functional Analysis; theory and applications," 1965, pgs. 10-13, 32-		
		33, 50-53, 62-65, 88-103, 174-203, 224-233.		
		Halmos, "Naïve Set Theory" Undergraduate Texts in Mathematics, 1968, pgs.		
		56-57, 66-69.		
<i>(</i>)		Hocking, "Topology,", 1961, pgs-47, 56-59, 68-71.		
5		Hutson, "Applications of Functional Analysis and Operator Theory," 1980, index,		
		preface, and Table of Contents.		
		Kahn, "Topology: An Introduction to the Point-Set and Algebraic Areas," 1975,		
4		pgs. 10-15.		
$ I_{O} $		Khare et al., "Capturing the State of Discibuted Systems with XML," 10/26/97,		
\		pgs. 1-12.		
		Lundquist et al., "Improving Relevance Feedback in the Vector Space Model,"		
		1997, pgs 16-23.		
		Mostafa et al., "A Multilevel Approach to Intelligent Information Filtering: Model,		
		System, and Evaluation," ACM Transactions on Information Systems, Vol. 15, No.		
		4, 10/97, pgs. 368-399.		
		Pesetsky, "Zero Syntax: experiencers and cascades," 1995, pgs. 1-122.		
		Pejtersen, "Semantic Information Retrieval," Communications of the ACM, Vol.		
		41, No. 5, 4/98, pgs. 90-92.		
		"Platform for Internet Content Selection (PICS)," http://www.w3.org, pgs. 1-8.		
		Singh, "Unifying Heterogeneous Information Models," Tesserae Information		
		Systems, Inc., http://citeseer.ist.psu.edu.com, pgs. 1-13		
		Smith, "Computers and human language," 1991, pgs. 205-257.		
V		"WordNet - a lexical database for the English language," Cognitive Science		
		Laboratory, Princeton University, www.cogsci.princeton.edu, 2 pgs.		

Examiner: Lamon None

Date Considered: 4/26/05

Serial No.: 09/615,726